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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,535	06/24/2005	Satoru Mima	124486	3552
. 25944 75	90 09/28/2006		EXAMINER	
OLIFF & BERRIDGE, PLC			CINTINS, IVARS C	
P.O. BOX 1992 ALEXANDRIA	-		ART UNIT	PAPER NUMBER
:			1724	
			DATE MAILED: 09/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/540,535	MIMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ivars C. Cintins	1724			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on 11 Au This action is FINAL. Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the formula of the formula of the drawing (s) be held in abeyance. See on is required if the drawing (s) is object.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

Application/Control Number: 10/540,535

Art Unit: 1724

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention. The limitation that the process includes "crushing the activated carbon in situ in a water treatment plant" (claims 1 and 4, line 3) does not appear to be supported by the disclosure originally filed, and hence constitutes **new matter**.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 10-309567 in view of Hatano et al. (U.S. Patent No. 6,602,816; hereinafter "Hatano"), further in view of Allen et al. (U.S. Patent No. 5,268,106; hereinafter "Allen"). JP 10-309567 discloses purifying water by adding activated carbon having the recited particle size to this water, and subjecting the thus treated water to membrane separation. Accordingly, this primary reference discloses the claimed invention with the exception of the recited *in situ* crushing of activated carbon by wet milling. Hatano discloses that it is known to adjust the particle size of an adsorbent material (clay) to the recited value (see

Application/Control Number: 10/540,535

Art Unit: 1724

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col. 7, line 66) by wet milling (see col. 8, lines 9-12). It would have been obvious to one of ordinary skill in the art at the time the invention was made to produce the activated carbon of the primary reference by wet milling, as suggested by Hatano, since this secondary reference discloses producing an adsorbent material having the recited particle size in this manner. Also, Allen teaches producing a sorbent material at the site where it is intended to be used; and it would have been obvious to one of ordinary skill in the art at the time the invention was made to produce the activated carbon of the modified primary reference in situ, as suggested by Allen, in order to facilitate its handling, and to eliminate any transportation costs associated with bringing this activated carbon to its intended location.

Applicant's arguments filed August 11, 2006 have been noted and carefully considered, but no longer appear to be relevant in view of the new grounds of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is 571-272-1155. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Duane Smith, can be reached at 571-272-1166.

The centralized facsimile number for the USPTO is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. Application/Control Number: 10/540,535

Art Unit: 1724

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ivars C. Cintins
Primary Examiner
Art Unit 1724

Page 4

I. Cintins September 26, 2006

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